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## Subject Index

### (Notes)

**General principles.** A small number of very specific access terms (with accompanying non-searchable modifiers) is assigned to each document. The terms, drawn from the title or text, are rotated to generate the index entries.

A major emphasis is on proper geographic or physiographic names (e.g., Antarctic Bottom Water, Nares Abyssal Plain, Tyrrhenian Sea). Nearshore studies peculiar to one region might only be accessible under a country or continent name, although the name would then carry modifiers for more complete geographic and topical information. Additional spatial, zonal or environmental locators are frequently assigned to a document. Examples might include the terms mixed layer, troposphere, estuaries, fracture zones, and terms beginning with bottom-, surface-, or littoral-.

Another emphasis, where practicable, is on access terms that represent concrete, tangible or directly perceptible entities. Thus, phytoplankton might be assigned in preference to primary production, or seawater in preference to transparency, or sediments in preference to grain size. The less concrete words are freely used as modifiers, and they will frequently occur in the index as gathering points, or nodes, for cross-references to more specific terms, but generally will not collect many documents themselves, unless they are central to the paper's topic. In general, all processes (e.g., diagenesis), measured or calculated quantities (e.g., production), concepts (e.g., Evolution) and other abstractions are used as access terms only when they are the subject of a universal discussion rather than subsidiary to regional or other more concrete considerations.

A few non-English terms (Massif Central, gelbstoff) will occur in the index if thought to be appropriate.

**Hierarchies.** Only limited hierarchies have been constructed. Thus, a document on the Tyrrhenian Sea is not necessarily accessible under the Mediterranean Sea, nor a document concerned with the Tertiary period accessible under Cenozoic. But oceanic features (including bottom features) are built up to at least the name of a specific sea or gulf. Shallow water areas are built up through a terrestrial hierarchy to the name of a country (for the U.S. and Canada to the name of a state or province), or occasionally to the name of a major nearshore water body such as Mid-Atlantic Bight or Chesapeake Bay. Islands are built up to the name of an island group or the name of the

surrounding water body in the case of isolated islands. Geological periods and markers are built up to at least the name of an epoch, but events as old as the Precambrian are always accessible under that term. Specific cases are sometimes made accessible as general cases; for example, a document on the Kuroshio would also be generically accessible under the term currents provided that, for the paper in question, the Kuroshio was used to exemplify a more universal aspect of currents. Certain hierarchies, particularly taxonomic, may occur coincidentally because they are part of an original title; otherwise an attempt is made to build up the taxon in a title by one or two levels.

**Cross-references.** There is a cross-reference structure for many of the general terms. Cross-references that follow the phrase "see also" tend to be narrower terms, synonyms or near-synonyms. Cross-references that follow the phrase "more at" tend to be broader or more distantly related terms. A cross-reference which appears in capital letters contains either another list of cross-references under it, or, a list of documents that might well be highly relevant to the search. This can be so because two-word terms are frequently filed in both normal (specific) and inverted (general) forms. For example, plate tectonics is filed as plate tectonics, to juxtapose it with other plate- terms, and also as tectonics: plate, to juxtapose it with other tectonics-terms. It is the term tectonics which will have the cross-references to, e.g., neotectonics, seafloor spreading and subduction. Because the cross-references are made somewhat independently of the documents in the collection, a user could occasionally look up a cross-reference to find that the only entry is a reference back to the starting place.

**Search strategy.** Given the above, the following general rules apply to search strategy: (1) Select concrete or tangible terms insofar as practicable. (2) Build an appropriate set of broader and narrower terms, particularly for proper geographic or physiographic names, geological time periods, taxa and their common name equivalents; for the general terms, a systematic foray through the cross-references at this point is likely to be more useful than is their happenstance utilization after a search has begun. (3) Select both terrestrial and oceanic geographic names for nearshore areas. Finally, the searcher interested in a large set of documents that, regardless of individually specific or general natures, applies to a broad concept like tides or sediments might better search the appropriate headings of the bibliography itself. Suggestions regarding the index will always be appreciated.

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